

TECHNICAL AMENDMENTS TO THE CLAIMS:

IN THE CLAIMS:

Please amend Claims 2-4, 20, 22-23, 27, 30, and 43 as indicated hereinbelow.

Please cancel Claims 68-73, 75, 76 and 80 without disclaimer or prejudice to the prosecution of the subject matter of these claims in subsequent divisional or continuation patent applications.

Listing of Claims:

1. (Cancelled)
2. (Currently amended) The isolated polynucleotide of claim 3 ~~and~~ 4, wherein the polynucleotide is a DNA sequence.
3. (Currently amended) An isolated polynucleotide comprising a coding sequence encoding a glutathione transferase (GST) subunit, wherein the coding sequence encodes the amino acid sequence of SEQ ID No. ~~NO~~:2.
4. (Currently amended) An isolated polynucleotide encoding a glutathione transferase (GST) subunit, wherein the polynucleotide ~~is coding sequence of~~ comprises the coding sequence of SEQ ID No. ~~NO~~:1.
5. (Cancelled)
6. (Cancelled)
7. (Cancelled)

8. (Previously amended) A chimeric gene comprising the polynucleotide according to claim 3 or 4 operably linked to regulatory sequences that allow expression of the coding sequence in a host cell.
9. (Previously amended) The chimeric gene according to claim 8 wherein the regulatory sequences allow expression of the coding sequence in a plant cell.
10. (Previously amended) A vector comprising the polynucleotide according to any one of claims 2 to 4 or the chimeric gene according to claim 8 or 9.
11. (Previously amended) The vector according to claim 10 which is an expression vector.
12. (Previously amended) A cell transfected with the vector according to claim 10.
13. (Previously amended) The cell according to claim 12, wherein the cell is selected from the group consisting of a prokaryotic cell and a plant cell.
14. (Previously amended) A cell, having integrated into its genome, the chimeric gene according to claim 8.
15. (Previously amended) The cell according to claim 14, wherein the cell is a plant cell.
16. (Cancelled)
17. (Cancelled)
18. (Cancelled)
19. (Cancelled)

20. (Currently amended) A method of producing a transgenic plant cell comprising:
- (a) transforming a plant cell with the expression vector according to claim 11 to produce a transgenic plant cell, and optionally,
 - (a'b) transforming the cell with one or more further polynucleotide sequences coding for a GST subunit, operably linked to regulatory elements that allow expression of the subunit in the cell.
21. (Previously amended) A method of producing a first-generation transgenic plant comprising:
- (a) transforming a plant cell with the expression vector according to claim 11 to produce a transformed plant cell; and
 - (b) regenerating the transformed plant cell to produce a transgenic plant.
22. (Currently amended) A method of producing a transgenic plant seed comprising:
- (a) transforming a plant cell with the expression vector according to claim 11 to produce a transformed plant cell;
 - (b) regenerating the transformed plant cell to produce a transgenic plant; and
 - (ca) producing a transgenic seed from the transgenic plant so produced by step (a) of claim 21.
23. (Currently amended) The A method of claim 21 comprising producing a second or successive generation transgenic progeny plant from a the first-generation transgenic plant produced by the method of claim 21 comprising serially propagating said first-generation transgenic plant through one or more successive generations, and optionally producing transgenic plants of one or more further generations from the second-

~~generation progeny plant thus produced.~~

24. (Cancelled)
25. (Previously amended) A transgenic plant cell produced by the method according to claim 20.
26. (Previously amended) A transgenic plant cell callus comprising the cell according to claim 13.
27. (Currently amended) A transgenic plant cell callus comprising the cell according to claim 13, or produced from a the transgenic plant cell, first-generation plant, plant seed or progeny plant produced from the transgenic plant cell according to ~~of~~ claim 25.
28. (Cancelled)
29. (Previously amended) A nucleic acid construct comprising:
- (a) the isolated polynucleotide according to claim 3 or 4 operably linked to regulatory elements that allow expression of the coding sequence in a plant cell; and
 - (b) a site into which a further polynucleotide comprising a coding sequence can be inserted.
30. (Currently amended) The nucleic acid construct ~~according to~~ of claim 29, wherein the site ~~of step (b)~~ is bounded by regulatory elements that allow expression of a coding sequence inserted at the site in a plant cell.
31. (Previously amended) A vector comprising the nucleic acid construct according to claim 29.

32. (Previously amended) A method of transforming a plant cell or of producing a plant cell culture or transgenic plant, the method comprising:
- (a) providing an untransformed plant cell which is susceptible to a herbicide whose herbicidal activity is reduced by a dimeric protein comprising two GST subunits;
 - (b) transforming the plant cell with the vector according to claim 31;
 - (c) cultivating the transformed cell under conditions that allow the expression of the polynucleotide encoding a GST subunit to provide a polypeptide comprising a GST subunit, wherein the polypeptide comprising the GST subunit can form a dimer with another GST subunit; and/or
 - (c') regenerating the cell to give a cell culture or plant such that the polynucleotide is expressed to provide a polypeptide comprising a GST subunit, wherein the polypeptide comprising the GST subunit can form a dimer with another GST subunit;
 - (d) contacting the cell, cell culture or plant with the herbicide whose herbicidal activity is reduced by the dimeric protein, and to which the untransformed plant cell was susceptible; and
 - (e) selecting cells, cell cultures or plants that are less susceptible to the herbicide than are corresponding untransformed cells, cell cultures or plants.

33-42. (Cancelled)

43. (Currently amended) A method of controlling the growth of weeds at a locus where a transgenic first-generation plant or transgenic progeny plant produced from the transgenic plant cell of ~~according to~~ claim 25 is being cultivated, ~~which~~ said method ~~comprises~~

comprising applying to the locus a herbicide whose herbicidal properties are reduced by a dimeric GST protein.

44-76. (Cancelled)

77. (Previously added) A first generation transgenic plant produced by the method according to claim 21.

78. (Previously added) A plant seed or progeny plant produced by the a method according to claim 22.

79-80. (Cancelled)